

PROPOSED SCOPE OF WORK for:
Hydrology Support for Water Acquisition

Project #:19H

Lead Agency: Water Acquisition Committee

Submitted by: George Smith
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Date: Revised September 17, 2001

Category:

- ☒ Ongoing project
- ☐ Ongoing-revised project
- ☐ Requested new start

Expected Funding Sources:

- ☒ Annual funds
- ☐ Capital funds
- ☐ Other (explain)

I. Title of Proposal:

Hydrology Support for Water Acquisition Activities

II. Relation to RIPRAP:

The work items proposed support water acquisition activities in the RIPRAP and under the direction of the Water Acquisition Committee.

Colorado River Action Plan: Mainstem

I.A.5. Provide and legally protect instream flows pursuant to Colorado River PBO

I.A.5.a. Deliver Ruedi flows to 15-Mile Reach

I.A.5.i. Coordinated Reservoir Operations

Green River Action Plan: Mainstem

I.A.4.a.3 Legally Protect Summer/Fall Flows

Green River Action Plan: Yampa and Little Snake Rivers

I. Provide and Protect Instream Flows

III. Study Method/Approach:

This proposal represents a compilation of Division of Water Resources activities to support ongoing hydrology data collection, contract administration, and development of data necessary for the Water Acquisition Committee to assess the acquisition of water. Major activities include: preparing Scopes of Work for WAC projects; preparing contracts and agreements; preparing annual reports; overseeing contract administration; and coordinating ongoing Recovery Program activities.

IV. Study Area:

Colorado and Green River Basins

VI. Study Goals, Objectives, and End Products:

To facilitate Recovery Program activities in the area of water right acquisition, instream flow filings, contract administration, updates to the RIPRAP, and reports of findings.

VI. Task Descriptions:

A. Gage Installation and Maintenance

The Division of Water Resources will continue to work with the U.S. Geological Survey, Bureau of Reclamation, and Colorado Division of Wildlife to maintain the current gage at the head of the 15-Mile Reach of the Colorado River and two gages at Deerlodge Park on the Yampa River. Work will continue on the development and coordination of agreements with the Central Utah Water Conservancy District and USGS for the operation and maintenance of two gages located on the Duchesne River and a temperature probe to be installed on the Jensen gage. Work with the USBR and the Utah Department of Natural Resources to install and maintain a USGS gage at Woodside on the Price River.

B. Hydrology Support for the Water Acquisition Committee

1. Water Right Acquisition

The Division of Water Resources will continue to support the Water Acquisition Committee in water right investigations as originally envisioned by the Recovery Program. The work will require working with willing sellers and potential lessors to gather information and acquire water rights. This task has become less important recently as water right acquisition has been given less priority and the optimization of existing facilities has become the focus of the Water Acquisition Committee. The tasks listed below are in support of the expanded mission of the Water Acquisition Committee.

- a. Developing scopes of work for water rights evaluations by the water right consultant, and overseeing contract administration, consultant supervision, and review of the consultant's work.
- b. Assisting in the development and negotiation of a long term lease for water from Ruedi Reservoir. Facilitating the annual renewal (if needed) of the lease and delivery of water from Steamboat Lake.
- c. Coordinating conservation flow releases from Steamboat Lake, and advising Tri-State Generation when to begin using storage water (up to 1,000 AF) pursuant to the terms of the Craig III Biological Opinion.

- d. Providing annual reports on the delivery and benefits of flows from Ruedi, and Wolford Mountain reservoirs.
- e. Preparing annual scopes of work and annual reports for projects in support of Water Acquisition Committee activities.

C. Yampa River Reservoir Studies:

Participate in the Yampa River Work Group by providing information on the Section 7 baseline, Yampa River depletions, and channel monitoring. Provide administrative services for the Green-Yampa River sediment monitoring program and provide coordination on the new USGS gages at Deerlodge Park.

D. Coordinated Reservoir Operations:

Provide assistance to Bureau of Reclamation in implementing a monitoring program to follow how peaks develop, and a data base of flow and operational criteria for the coordinated Reservoir operation study. Work will be coordinated with the efforts of the Loveland and Grand Junction offices of Bureau of Reclamation, Denver Water, CWCB, and the State Engineer. Activities will include: representing the Service at coordinated reservoirs work group meetings, assisting in the scheduling of public meetings, reviewing press releases, representing the Recovery Program at public meetings, monitoring runoff, and participating in the scheduling of reservoir releases to enhance peaks.

When coordination is completed, a report will be prepared that summarizes the coordination effort and reviews the results of the channel monitoring effort in the 15-Mile Reach. The report will begin to relate the findings of the channel monitoring effort to the findings of the monitoring effort and the biology of the endangered fish life history requirements. Scopes of work and agreements will be prepared to provide for channel monitoring funds for the 15-Mile Reach.

E. General Support Activities:

The Division of Water Resources will participate in technical discussions with the CWCB staff in an effort to clarify and quantify the Services Instream flows for endangered fish. The work will include attending meetings, reviewing reports, providing comments, and reporting back to the Service and the Water Acquisition Committee. This effort is in support of the flow filings outlined in the RIPRAP.

The Division of Water Resources will participate in the Division 5 coordinated facilities study. Planned activities include the reviewing work products, developing hydrological data, projecting water development, and interpreting the results as they relate to endangered fish flow. The work will include attending meetings, reviewing reports, providing comments, and reporting to the Service and the Water Acquisition Committee.

The Division of Water Resources will represent the Service and the Recovery Program as one of the “HUP managing Entities” which was set up to implement the Orchard Mesa Check settlement. Work includes attending annual kickoff and rap up meeting in Grand Junction and participation in weekly conference calls beginning early in July and ending when irrigation ends in November. Each week river flows must be tracked, flow targets coordinated with Service Biologist and recommendations are made on how best to release reservoir water secured by to Recovery Program to meet targets and provide benefits to endangered fish.

The Division of Water Resources will continue to work on protection for endangered fish basin wide.

The Division of Water Resources will continue to coordinate the reviews by the Geomorphology Peer Review Panel.

Serve as Chairman of the Water Acquisition Committee, develop annual updates to the RIPRAP, coordinate scopes of work, develop meeting agendas, distribute meeting material, and conduct meetings.

VII. Study Schedule:

The work will proceed in accordance with the schedules of the various components of the RIPRAP.

VIII. Deliverables:

Given the diverse nature of the work involved, some deliverables are hard to specify. Annual progress reports will be prepared for the Recovery Program. In addition to the Program reports, annual reports will be prepared documenting Ruedi releases and gage operation with the appropriate data. Documents such as appraisal reports, water rights evaluations, and flow analysis will be produced by a water rights consultant under the supervision of the Division of Water Resources.

IX. FY 2002 Budget: By Task

Task A

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,900	2	3,800	
Clerical & Accounting	650	1	560	
Travel			470	
Equipment			0	
Supplies			0	
Task Subtotal			5,000	5,000

Task B

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,900	5.8	11,120	
Clerical & Accounting	650	2	1,300	
Travel			1,800	
Equipment			350	
Supplies			250	
Task Subtotal			14,700	14,700

Task C

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,900	2.3	4,370	
Clerical & Accounting	650	0.2	130	
Travel			470	
Equipment			0	
Supplies			270	
Task Subtotal			5,240	5,240

Task D

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,900	5	9,500	
Clerical & Accounting	650	1.3	845	
Travel			1,260	
Equipment			450	
Supplies			205	
Task Subtotal			12,260	12,260

Task E

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,900	7	13,300	
Clerical & Accounting	650	2	1,300	
Travel			1,500	
Equipment			300	
Supplies			0	
Task Subtotal			16,300	16,300

GRAND TOTAL				53,500
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FY 2003 Budget: By Task

Task A

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,976	2.3	4,545	
Clerical & Accounting	675	0.44	279	
Travel			470	
Equipment			0	
Supplies			0	
Task Subtotal			5,312	5,312

Task B

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,976	6	11,856	
Clerical & Accounting	675	2	1,350	
Travel			1,800	
Equipment			350	
Supplies			250	
Task Subtotal			15,590	15,590

Task C

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,976	2.3	4,550	
Clerical & Accounting	650	0.5	340	
Travel			470	
Equipment			0	
Supplies			210	
Task Subtotal			5,570	5,570

Task D

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,976	5	9,880	
Clerical & Accounting	650	1.6	1,080	
Travel			1,260	
Equipment			450	
Supplies			220	
Task Subtotal			12,990	12,990

Task E

Cost Category	Cost Per Week	Weeks	Total	Task Total
Principal Investigator	1,976	6.8	13,440	
Clerical & Accounting	650	3	2,025	
Travel			1,500	
Equipment			300	
Supplies			0	
Task Subtotal			17,345	17,345

GRAND TOTAL				56,807
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Budget Summary:

FY 2002 Budget: \$53,500

FY 2003 Budget: \$56,807

X. Reviewer: Water Acquisition Committee.